

The Boundary Layer on a Flat Plate in Anisotropic
Magnetohydrodynamics, by V. B. Varanov,
A. G. Kuklovskiy, 6 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Mekh i Mash, No 1, 1964, pp 141-142. 9696878
FTD-TT-65-44

Sci - Phys
May 65

280,452

Unsteady Flow Past, and Flexural Flutter of, Bodies
of Revolution in a Supersonic Stream, by P. I. Zheludev.
RUSSIAN, per, Iz Vek Nauk SSSR, Otdel Tekh Nauk Mekh
i Mash, No 1, 1964, pp 158-162.
NASA TT F-9024

Sci-Phys

Aug 64

~~RESTRICTED~~

U.S. GOVERNMENT ONLY

265,130

The Equations of the Transverse Vibrations of
Liquid-Filled Shells, by B. I. Rabinovich, 11 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Mekhanika i Mashinostroyeniye, No 1, 1964,
pp 166-169. 9223043

NASA TT R-216

NLL 6016.49 1964 (216) on loan

FTD-~~TT~~-65-869

Sci - Phys

Jul 64

263,908

The Equations of the Axially Symmetric Vibrations
of a Liquid-Filled Cylindrical Shell, by V. P. Shumakov,
11 pp.

RUSSIAN, per, Iz Vsk Nauk SSSR, Otdel Tekh Nauk,
Mekhanika i Mashinostroyeniye, No 1, 1964,
pp 170-173. 9223057

NASA TT F-219

NLL 6015.49 1964 (219) on loan

Sci - Phys
Jul 64

263,906

Theory of Plastic Flow at Nonisothermal
Loading, by I. A. Birger, 7 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Mekh i
Mash, No 1, 1964, pp 193-196. 9698389
FTD-TT-64-1266

Sci & Phys
Oct 65

290,124

Application for the Method of Photoelastic Coatings.
To the Determination of the Stresses and Deformations
in Flexible Plates and Shells, by M. Kh. Akhmetzyanov,
8 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Mekhanika i Mashinostroyeniye, No 1, 1964, pp 199-201.

9223044

NASA TT F-220

FTD-TI-64-1088

NLL 6015.49 1964 (220) on loan

Sci - Phys

Jul 64

263,907

Optimal Combination of Propulsion Systems
by Yu. N. Ivanov.

RUSSIAN, per, Izv Ak Nauk SSSR,
Mekhan i Mashinostroyeniye, No 2, 1964,
pp 9-18.

Dept of Navy Tr 4562/APL/JHU TG 230-T-464

Sci=M/M
Apr 66

299,639

Flow Around a Flat Blunt Plate under a
Small Angle of Attack with a Hypersonic
Gas Stream, by V. I. Kholyavko, 8 pp.
RUSSIAN, per, AN SSSR. Izvestiya. Mekhanika
i Mashinostroyeniye, No 2, 1964, pp 19-23.
P100016568
FTD-HT-66-606

Sci-Physics
Feb 68

350,595

Determining the Average Speed and Concentration
of Particles of a Rapid Flux of Rarefied Plasma,

by V. B. Cherenkov, O. Yu. Sevast-yanov,
Yu. M. Lukoyanov, 9 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdeleniye
Tekhnicheskikh Nauk, Mekhanika i Mashinostroyeniye,
No 2, 1964, pp 25-29. 9695114
FTD-TT-64-947

Sci - Phys
Nov 64

269,085

Balancing of Flexible Rotors,
by M. Ya. Kushul', A. V. Shlyakhtin, 21 pp.
RUSSIAN, per, Iz Ak Nauk SSR, Mekh i Mash,
No 2, 1964, pp 61-77.
ACSI I-9305
ID 2204012066

Sci-M/M
Jun 66

302,050

Study of Local Strain During Bending of
a Hollow Shaft, by L. S. Burshteyn,
20 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Mekh
i Mash, No 2, 1964, pp 123-129. 9699003
FTD-TT-65-1121

Sci - Phys
Jan 66

294,739

Deformation of Membrane Shells of Rotation, by
V. I. Usyukin, 15 pp.
RUSSIAN, per, AN SSSR. Izvestiya. Mekhanika i
Mashinostroyeniye, No 2, 1964, pp 134-140.
FI00052768-V
FTD-HT-66-539

Sci-Mech Engr
Apr 68

352,259

Vibrations of an Elliptic Cylinder in a Viscous
Incompressible Fluid, by D. N. Gorelov, 5 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Mekh i Mashino,
No 2, 1964, pp 171-174.
CIA/FDD X-5446

Sci - Phys

Sept 64

FOR OFFICIAL USE ONLY

266,465

Experimental Investigation of the Flow of
quicksand in a Formation, by
G. F. Vasil'ev, et al,
RUSSIAN, per, Izv. Ak Nauk SSSR, Mekh i
Mashinostr., No 2, 1964, pp 179-182.
ATS RJ-4490

Sci-eas S-ci
Apr 67

321,563

Employment of Electronic Digital Computers
in Structural Mechanics, by A. P. Filin,
14 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Mekh i
Mash, No 2, 1964, pp 188-192. 969617
FTD-TT-64-951

Sci - Elec
Apr 65

277,843

Application of Digital Computers in Structural
Mechanics, by A.P. Filin, 10pp
RUSSTAN, per, Izvestiya Akademii Nauk SSSR,
Mekhanika i Mashinostroyeniye, Moscow, No 2,
Mar-Apr 64, pp 188-192
JPRS 27244

Sci-Math & Data Proc
Jan 65

271113

Theoretical Analysis of Unsteady Heating
and Destruction of a Glass-Plastic in the
Region of the Stagnation Point, by

Yu. V. Polezhayev, 12 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Mekh i

Mash, No 3, 1964, pp 3-8. P100139466

FTD-TT-66-279

Sci - Phys

Jan 67

317,621

Some Variational Problems on the Acceleration
of Carrier Gas in Strong Electromagnetic Fields,
by G. M. Ben-Zelikovich, 13 pp.

RUSSIAN, per, AN SSSR. Izvestiya. Mekhanika i
Mashinostroyeniye, No 3, 1964, pp 9-15.

F100134268-V

FTD-HT-66-761

Sci-Physics
July 68

360,718

Flow of Viscous Liquid Near Angular Points
of Contour of Solid Body, by G. I. Maykavar,
8 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Tekh i
Mash, No 3, 1964, pp 16-20. P100091607
FTD-MT-65-322

Sci - Mech, Industrial, Civil
& Marine Engr
Apr 67

322,051

Determination of Coefficients of Rotational
Derivatives in Wind Tunnels, by

S. M. Belotserkovskiy, B. K. Skripach,
14 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Mekh i
Mash, No 3, 1964, pp 21-28. P100091667
FTD-MT-65-322

Sci - ES

Apr 67

322,052

Conditions of Imperturbability of the Single-
Rotor Gyrocompass, by G. D. Elyumin & M. V.
Chichinadze, 16 pp.

RUSSIAN, per, AN SSSR. Izvestiya. Mekhanika i
Mashinostroyeniye, No 3, 1964, pp 71-86, 152-
154. P100372667

FTD-MT-64-536

Sci/Meth & Equip
Jan 68

348,351

On Motion of the Free Gyroscope with Calculation
of Internal Friction in Elastic Elements of its
Construction, by L. I. Kargu & I. M. Okon, 7 pp.
RUSSIAN, per, AN SSSR. Izvestiya. Mekhanika i
Mashinostroyeniye, No 3, 1964, pp 71-86, 152-
154. P100372667
FTD-MT-64-536

Sci/Meth & Equip
Jan 68

348,353

Systematic Departures of the Triaxial Gyroscopic
Platform, Caused by its Angular Oscillations, by
V. A. Zinenko, 16 pp.

RUSSIAN, per, AN SSSR, Izvestiya, Mekhanika i
Mashinostroyeniye, No 3, 1964, pp 71-86, 152-
154. P100372667

FTD-MT-64-536

Sci/Meth & Equip
Jan 68

348,352

Equations for Creep Based on the Criterion of
Maximum Reduced Stress, by Yu. V. Nemirovskii.
RUSSIAN, per, Izvestiya Akademii Nauk SSSR Otd.
Tekhnicheskikh Nauk Mekhanika i Mashinostroyeniye,
No 3, 1964, pp 117-122.
NLL RTS 3228

Sci - Phys
Sept. 67

340,388

REQUEST TR CHECK

18-3-8

BR70-12-224

On experimental research of anisotropic fiberglass
Ya. S. Sidorin

Russ per: Izvestiya. AN SSSR. Mekhanika I
Mashinostroenie, no 3, 1964, 122-126

In process as

HT-23-208-70

*Negative
28 March 70*

On the Magnitude of the Critical Force During Axial
Compression of a Cylindrical Shell, by
V. N. Kozhevnikov, 8 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Mekh i Mashino, No 3, 1964, pp 137-141.
CIA/FDD X-5490

Sci - Phys

Nov 64

FOR OFFICIAL USE ONLY

269,306

Vibrations and Stability of an Elliptical
Shell, by B. I. Slepov.

RUSSIAN, per, Izv AN SSSR, Otd Tekh Nauk,
Mekh i Mash, No 3, 1964, pp 144-146.

NASA TT F-12,155

Sci-Phys

June 69

383,236

Effect of Random Distribution of Impermeable
Sections on the Average Hydraulic Conductivity
of a Formation , by V. V. Skvortsov,
RUSSIAN, per. Izv. Ak Nauk SSR, Mekh i
Mashinostr, No 3, 1964, pp 178-182.
RTS EJ-4495

sci-tech,-
Apr 67

321,567

A Method for Computing Supersonic Flow Around Blunt
Bodies, Accompanied by a Detached Shock Wave,
by S. M. Glinitskiy, G. F. Telenin, 31 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Mek i Mash, No 4,
1964, pp 9-28. 9226927
NASA TT F-297

NLL-6015.49 1965-TT-F-297

Sci-ES & Astron
Feb 65

274934

Supersonic Flow Around Ellipsoids,
by A. I. Shveta.
RUSSIAN, per. iz Ak Nauk SSSR, Otdel Tekh
Nauk, Mekh i Mash, No 4, Jul, Aug 1964,
pp 29-32.
*NASA TT F-298

Sci-Phys
Nov 64

An Approximate Solution to the Problems of
Unsteady-State Plane-Radial Flow, by
V. M. Entov,
RUSSIAN, per, Izv. Ak Nauk SSSR, Mekh i
Mashinost., No 4, 1964, pp 55-59.
ATS RJ-4493

Sci-Phys
Apr 67

321,566

Investigation of Three-Dimensional Photoelastic
Models, by Kh. K. Aben.
RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Mekh i Mash, No 4, 1964, pp 41-46.
NASA TTF-9290

Sci-Engt
May 65

280,166

The Creep of Anisotropic Bodies, by L.M. Kuchanov.
RUSSIAN, per, Izvestiya Ak Nauk SSSR. Mekhaniki
i Mashinostroyeniye, No 4, 1964, pp 63-67.

PI00013066

FTD-TT-65-1360

Kochan, Indust, Civil &
Marine Engr
Sep 66

309,405

Viscous - Plastic Flow of Circular Disks and
Cases of Rotation, by G.I. Bykovtsev,
T. D. Semykina. 56 pp.
RUSSIAN, per, Izvestiya Ak Nauk. Mekhaniki i
Mashinostroyeniye, No 4, 1964, pp 68-76.
P100013066
FTD-TT-65-1360

Mechan, Indust, Civil &
Marine Engr
Sep 66

309,406

A Theory of Metal Creep with Account
Taken of Work Hardening, by I. I. Bulgakov.
RUSSIAN, per, Izv. Ak. Nauk SSSR, OTN
Mekhanika i Mashinostroenie, No 4,
1964, pp 87-89.
NLL ~~885~~ 2920

Sci-M&M
June 66

302,267

Cyclic Loading of an Elastic-plastic Medium,
by E.A. Arutyunyan.

RUSSIAN, per, Izv. Ak. SSSR Mekh. i Mash.
No 4, 1964, pp89-91.

NLL 8922.09 (4118)

Sci - Eng

Oct 67

343,863

Deformation Boundary Conditions in the Theory of
Elasticity, by L. A. Rozin. 56 pp.

RUSSIAN, per, Izvestiya Ak Nauk SSSR. Mekhaniki
i Mashinostroyeniye, No 4, 1964, pp 96-101.

P100013066

FTD-TT-65-1360

Sci/Mechan, Indust, Civil &

Marine Engineering

Sep 66

309,407

Stability of a Circular Cylindrical Sandwich Shell
Under Nonuniform Compression, by V. V. Kabanov,
7 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Mekh i Mash, No 4, 1964, pp 116-119.

CIA/FDD X-5511

XSci - Phys

Jan 65

FOR OFFICIAL USE ONLY

270,487

Motion of a Pendulum With Strong Damping on
a Vibrating Base, by D. M. Klimov.
RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Mekh i Mash, No 4, 1964, pp 142, 143,
NASA TT F-363

Sci-Engr
Aug 65

286,820

Effect of the Inertia of Cardan Suspension
Disks on the Motion on a Gyroscopic
Integration of Linear Accelerations, by
L. N. Slezkin, 7 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Mekh i
Mash, No 4, 1964, pp 145-147. 9697771
FTD-TT-65-333

Sci - Earth Sci
Aug 65

287,554

Temperature Profiles in Bodies Traveling at High
Altitudes at Hypersonic Speed, by I. N. Murzinov.
RUSSIAN, Izvestiya Akad Nauk SSSR. Mekhanika i
Mashinostroyeniye, No 4, 1964, pp 148-150.

9700751

FTD-TT-65-1478

Sci/Aerospace

Jun 66

303,766

Three Dimensional Flow Around Blunt Bodies by
a Supersonic Stream of Perfect Gas, by Yu. N. Dyakonov,
8 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Mekh i Mash, No 4,
1964, pp 150-153. 9226421
NASA TT F-299

Sci-Ear Sci & Astron
Feb 65

273,169

Flow of a Non-Adiabatic Supersonic Flow
of an Ideal Gas Around a Flat Plate, by
I. F. Shakhmov, 10 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Mekh i
Mash, No 4, 1964, pp 154-157. 9699029
FTD-TT-65-1122

Sci - Engr
Jan 66

294,732

R-6754-D
7 Mar 66

On a problem of the hydrodynamic theory of stability

By: E. V. Semenov

From: IZV AKAD NAUK SSSR MEKH I MASCHINOSTR

No 4, 1964 pp 161-165

(5 pp)

Russian - est for vds:

Type 1 camera ready and 1 carbon copy. Documents
may be cut.

An Approximation Method for Solving Jet
Problems, by O. V. Yakovlevskiy.
RUSSIAN, per, Iz Ak Nauk SSSR, Mekh i Mash,
No 4, 1964, pp 169-172.

✓ PACSI I-7328
ID 221402265

Sci - Aero
Jul 65

On the Supporting Properties of a Thin Layer of
Gas or a Cavitation Liquid, by S. I. Sergeyev.
56 pp.

RUSSIAN, per, Izvestiya, Ak Nauk SSSR. Mekhanika
i Mashinostroyeniye, No 4, 1964, pp 172-177.

FI00013066

FTD-TT-65-1360

Sci/Mechan, Indust, Civil &
Marine Engr.
Sep 66

309,408

Study of the Mobility of Connate Water in a
Stratified Porous Medium, by A. F. Bogomolova
and V. M. Glazova,

RUSSIAN, per, Izv. Ak Nauk SSSR, Mekh i
Mashinostr., No 4, 1964, pp 180-184,
ATIS RJ-4489

Sci-Phys

Apr 67

521,562

Combustion of Graphite in a High-Temperature
Air Flow, by N. A. Anfimov, 14 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh
Nauk, Mekh i Mash, No 5, 1964, pp 3-11.

CIA/FDD X-5578

Sci - 2Phys

Apr 65

FOR OFFICIAL USE ONLY

277,866

on Accelerating, with Minimum of
Conducting Gas in Strong Electro-
magnetic Fields, by G. M. Bam-
Zolnikov.

RUSSIAN, per, Izvestiya Akad Nauk
OTN, Mekhanika i Mashinostroyeniye,
No 3, 1964, pp 12-19.

*FID-MT-63- 24

Sci-Phys
July 68

Method of Calculating Three-Dimensional Super-
sonic Gas Flows Around Bodies, by Z. D. Zapryanov.
RUSSIAN, per, Iz Ak Nauk SSSR, OTN, Mekh i
Mashinoz, No 5, 1964, pp 20-24.
Dept of Navy Tr 4407/APL No T-1552

Sci - Eng
Feb 66

295,427

Calculation of the Aerodynamic Interference
of a System of Bodies in an Ideal
Liquid, by D. N. Gorelov.
RUSSIAN, per, Izv Akad Nauk SSSR,
Mekhan i Mashinostr, No 5, 1964, pp 33-38.
NASA TT F-9882

1964 T.M. 1154

Sci-Aero
Apr 66

298,657

On the Dynamics of an Automatic Course System,
by L. A. Komraz, 13 pp.
RUSSIAN, per, Izvestiya Akad. Nauk SSSR, Mekhanika
i Mashinostroyeniye, No 5, 1964, pp 54-60.
9700444
FTD-TT-65-1784

Sci/Math & Data Processing
Jun 66

302,539

Propagation and Interaction of Elastic-
Plastic Loading Waves in a Finite Rod,
by G. V. Litvinov, 6 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh
Nauk, Mekh i Mash, No 5, 1964, pp 108-III.
CIA/FDD X-5639

Sci - Phys
Jun 65

FOR OFFICIAL USE ONLY

281,714

Stability of a Cylindrical Shell With a
Liquid Filler in a Gas Flow, by Yu. Yu. Shveyko,
3 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel
Tekhn Nauk, Mekh i Mash, No 5, 1964,
pp 112-116.

CIA/FDD X-5030

Sci - Phys

Jul 65

FOR OFFICIAL USE ONLY

Predicting Supersonic Flow Configurations
Around Solid Bodies by Means of Plane
Shock Waves, by G. I. Maykapar.
RUSSIAN, per, Izvestiya Akad Nauk SSSR,
OTN, Mekhanika i Mashinostroyeniye.
No 6, 1964, pp 142-144.
*FTD-MT-65- 24

Sci-Phys
July 65

Supersonic Flow Over Bodies of Varying Shape With
A Detached Shock Wave, by S. M. Gilinskiy, G. F.
Telenin.

RUSSIAN, per, Iz Ak Nauk SSSR, Mekh i Mash,
No 5, 1964, pp 148-156.
Dept of Navy Tr 4459/APL/JHU T-1593

296,447

Sci-Phys
Feb 66

A Geometrical Interpretation of the Oscillations
of an Elastically Suspended Rigid Body, by V. G.
Aver'yanova and F. M. Dimentberg, 19 pp
RUSSIAN, per, Izvestiya Akademii Nauk SSSR,
Mekhanika i Mashinostroyeniye, No 6, Nov-Dec 64,
pp 10-19.
JPRS 29551

USSR
Sci-Phys.
Apr 65

277,732

Viscous Hypersonic Flow After a Parabolic
Axially Symmetric Shock, by V. S. Nikolayev.
8 pp.

RUSSIAN, per, IZ AN SSSR Mekhanika i
Mashinostroyeniye, No 6, 1964,
pp 48-52 P100171667
FTD MT 65-325

AFCRL G-T-R-65-10

327,320

Sci-PHy
Jun 67

Local Stability of Sandwich Shells of
Revolution, by E. I. Grigolyuk,
P. P. Chulkov, 12 pp.
RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh
Nauk, Mekh i Mash, No 6, 1964, pp 78-88.
CIA/FDD X-5644

NASA - TT-F-412

Sci - Phys
Jun 65

NLL 6015.49F

281,710

Calculation of the Effect of an Arbitrary
Dynamic Load on Circular and Annular Plates,
by Ye. M. Gershunov, 9 pp.

RUSSIAN, per, An SSSR. Izvestiya. Mekhanika
i Mashinostroyeniye, No 6, 1964, pp 89-95.

P100240668-V

FTD-HT-23-794-67

Sci/Phys
Oct 68

363,372

On the Stressed State Around Curvilinear
Holes in Shells, by G. N. Savin,

A. N. Guz¹, 11 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh
Nauk, Mekh i Mash, No 6, 1964, pp 96-105.

CIA/FDD X-5691

NLL 6015.49F (423)

1/22/65 TT-7-423 9231811

Sci - Phys

Aug 65

FOR OFFICIAL USE ONLY

287,537

On the Vibrations of an Infinite Elastic Cylindrical
Shell Around Which a Compressible Gas Flows, by
E. P. Kudryavtsev, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Mekh i Mash, No 6, 1964, pp 113-116.

CIA/FDD X-3602

Sci - Phys

May 65

FOR OFFICIAL USE ONLY

278,400

On the Stability of Sandwich Shells With
Elastic-Viscous Filler, by Kh. M. Mushtari,
A. C. Teregulov, 7 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel
Tekhn Nauk, Mekh i Mash, No 6, 1964,
pp 119-124.

CIA/PDD X-5635

Sci - Phys

Jul 65

FOR OFFICIAL USE ONLY

282,669

On the Form of a Bow Shock Wave in Hypersonic Flow
Over Blunt Bodies, by V. V. Lunev.
RUSSIAN, per, Izvestiya Ak Nauk SSSR. Mekhanika
I Mashinostroyeniye, No 6, 1964, pp 138-140.
*FTD-HT-66-280

Sci/Physics
Sep 66

Viscous-Plastic Flow of Circular
Plates and Shells of Revolution,
by G. I. Bykovskiy and T. D.
Semykina.

RUS:IAN, per, Izvestiya Akad
Nauk SSSR, OTN, Mekhanika i
Mashinostroyeniye, No 7, 1964,
pp 68-76.

~~FTD-TT-63-1360~~

* FTD-TT-63-1360

Sci-Eng

July 63

Boundary Deformation Conditions in
the Theory of Elasticity, by L. A.
Rozin.

RUSSIAN, per, Izvestiya Akad Nauk
SSSR, OTN, Mekhanika i Mashinostro-
vent, No 7, 1964, pp 96-101.

~~FTD-77-65-1360~~

FTD-77-65-1360

SCI-88-T
July 68

Carrying Capacity of a Thin Gas
Layer or a Cavitating Fluid, by

S. I. Sergeev.

RUSSIAN, per. Investigative Akad Nauk
SSSR, OTN, Mekhanika i Mashinostro-
yi, No 7, 1964, pp 172-177.

~~SECRET~~

FTO-TT-65-1360

Sci-Inst.

July 65

An Approximation Method for Solving Jet
Problems, by O. V. Yakovlevskiy, 9 pp.
FOR OFFICIAL USE ONLY OTN
RUSSIAN, per, Iz Ak Nauk, Mekh i Mashinos,
No 9, 1964. 9698131
ESTC 381-T65-316
I-7328
ID 2204022265

Sci - Eng
Oct 65

238,664

Combustion of Graphite in an Air Flow at
High Temperatures, by N. A. Anfimov.
RUSSIAN, per, Izv. Akad. Nauk, SSSR,
Otd. Tekhn. Nauk, Mekhanika i Mashino-
stroenie, Sep/Oct 1964, pp 3-11.
UKAEA-Windscale Trans. 192
(On Loan)

Sci/MGM
Nov 65

292,105

RUSSIAN METALLURGY AND MINING, 1963, NO. 1.
Jan/Feb 63, 116p
Order from SIC \$15.00, \$68.00/year

Trans. (some articles abridged) of Akademiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk. Izvestiya Metallurgiya i Gornoe Delo, 1963, no. 1, p. 14-17, 41-58, 69-75, 87-90, 97-99, 105-120, 129-175.
Abstracts are included of the articles not translated in full.

DESCRIPTORS: *Metallurgy, Metallography, *Mining engineering, *Abstracts, Mechanical working, Slags, Chromium compounds, Titanium compounds, Niobium compounds, Calcium compounds, Carbides, Cyanamides, Copper compounds, Sulfides, Powder metallurgy, Electrical conductance, Ultrasonic radiation, Iron, Steel, Carbon alloys, Graphite, Stainless steel, Rare earth elements, Phosphorus, Separation, Zinc, Boron, (Metallurgy, TT, v. 10, no. 11) (over)

63-22461-1

1. Title: Cementite
2. Title: Rheotropic regression
1. Scientific Information Consultants Ltd. (Gt. Brit.)

Office of Technical Services

The Influence of Slag and Metal Compositions
on the Process of Steel Desulphurization by
a Lime-alumina Slag, by M. L. Sazonov and
A. G. Shalimov.

RUSSIAN, per, Izvestiya Akad Nauk SSSR, OTN,
Metallurgiya i Gornoye Delo, 1963, No 1, pp 33-40.
NLI RTS 2838 (On Loan or Purchase)

Aug 65

288,835

thermodynamics of ~~carbides~~, by
V. I. Alekseyev, L. A. Shvartsman.

RUSSIAN, per, Iz Ak Nauk Otdel Tekh Nauk,
Metallurgiya Gornoe Delo, No 1, 1963,
pp 91-96.

CRL/T.1291

BISI 332/

Sci-M/M

Oct 63

241, 400

Role of Microdistortions in the Recrystalliza-
tion of High-Melting Metal Powder ~~COMPACTS~~
Compacts While Being Sintered, by
F. N. Alekseeva, R. S. Matyushenko, et al.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh
Nauk, Met Gorn Delo, No 1, 1963, pp 97-99.

HB 6009

Sci-M/M

243, 451

Nov 63

The Effect of Some Alloying Elements on the
Recrystallization of ~~Magnesium~~ Magnesium, by
M. E. Drits, et al.

RUSSIAN, per, Iz Ak Nauk Otdel Tekh Nauk,
Metallurgia Gornoe Delo, No 1, 1963, pp 191-198.

NLL Ref. 5828.4 1963 (5,382)
(Loan)

Sci - M/M
Nov 63

242,270

63-22461-2

RUSSIAN METALLURGY AND MINING, 1963, NO. 2.
Mar/Apr 63, 116p
Order from SIC \$68.00/year

Trans. (some abridged) of Akademiya Nauk SSSR
Otdelenie Tekhnicheskikh Nauk. [Izvestiya] Metallur-
giya i Gornoe Delo, 1963, no. 2, p. 9-12, 17-66,
96-99, 104-111, 116-129, 136-152, 169-172. Abstracts
are included of the articles not translated in full.

DESCRIPTORS: *Metallurgy, *Mining engineering,
Magnesium alloys, Liquid metals, Steel, Desulfuri-
zation, Refineries, Thermodynamics, Iron alloys,
Castings, Copper, Chromium compounds, Oxides,
Aluminium, Grain structures (Metallurgy), Sintering
Plasticity, Deformation, Ultrasonic radiation,
Titanium alloys, Tin alloys, Zirconium alloys,
Minerals, Manganese, Niobium.
(Metallurgy, TT, v. 10, no. 11) (over)

1. Title: Tantalite
1. Scientific Information
Consultants Ltd. (Gt. Brit.)

Office of Technical Services

Interaction Between Oxygen Jet and Liquid Pig Iron
in the Oxygen Top Blowing (of Steel), by E. M.
Ogryzkin.

RUSSIAN, per, Izvest Akad Nauk SSSR, Otdel Tekh
Nauk, Metallurgiya i Granoye Delo, No 2, 1963,
pp 17-20.

HB 6011

Mat & Met

Oct 63

345.171

Effect of Deoxidation of Steel by Aluminum
on the Process of its Desulfurization, by
S. E. Volkov
RUSSIAN, per, Akaemiya Nauk SSSR. Izvestiya.
Otdelenie Tekhnicheskikh Nauk. Metallurgiya
i Gornoe Delo, No 2, 1963, pp 22-27
NTC 71-15107-11F
H8 6012

mar 72

345, 170

Nisel'son, L. A., Pustil'nik, A. I., and Soshnikova,
L. A.
PURIFYING SELENIUM FROM TELLURIUM BY
RECTIFICATION (Ochistka Selena ot Tellura
Rektifikatsiei). Sep 63 [17p] (foreign text included)
22refs [DSIR] NLL-M, 5424.
Order from OTS, SLA, or ETC \$1.60 TT-64-13218

Trans. of Akademiya Nauk SSSR / Izvestiya / Metallur-
giya i Gornoe Delo, 1963, no. 2, p. 79-85.

(Engineering--Chemical, TT, v. 12, no. 2)

TT-64-13218

- I. Nisel'son, L. A.
- II. Pustil'nik, A. I.
- III. Soshnikova, L. A.
- IV. DSIR-NLL-M, 5424
- V. International Nickel Co.
(Mond) Ltd., London
(England)

Office of Technical Services

The Changes in the Phase Composition of Basic
Oxygen Furnace Slags During the Blow, by
A. V. Rudneva, V. V. Smektin.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk,
Metallurgiya i Gornyye Dela, No 2, 1963, pp 58-66.

HB 6000

net & Mat
Oct 63

345,164

Purifying Selenium From Tellurium by Rectification,
by L. A. Nisel'son.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, Mat
i Gornoe Delo, No. 2, 1963, pp 79-85.

NLL(LOAN)Ref: 5828.4 1963 (5424)

Sci-Chem
April 64

Agency: Interior/Bu. of Mines
P.O. No. P1190630

R-10057-D

Title: An investigation of electrochemical surface properties of tantalite during interaction with flotation reagents.

Author: S.I. Pol'kin

Source: Akademiia Nauk SSSR. Izvestiia, Metallurgiya i Gornoe Delo, no. 2, 169-172 (1963)
Language: Russian

Special instructions: Please translate into English. Copy of original attached.

De

Mathematical Solution of ~~the~~ the Rolling Problem,
by K. N. Shevchenko.
RUSSIAN, per, Iz Ak Nauk Otdel Tekh Nauk Metal
i Gornoye Delo, No 3, 1963, pp 127-146.
BISI 3577

Sci - Math & Data Process
Jun 64

261,119

The High-Temperature Strength of Ni₃Al-Ni₃Nb Alloys,
by R. S. Mints.

RUSSIAN, per, Iz Ak Nauk SSSR Otdel Tekh Nauk
Metal i Gornoye Delo, No 4, 1963, pp 151-153.

NLL Ref: 5828.4 1963 (5449) (loan)

075 77 64-19005

May 64

Rhenium Coating by means of Thermal Dissociation
of the Oxychloride, by A. N. Zelikman.
RUSSIAN, per, Izvestia. Akademiia Nauk SSSR.
Metallurgiya i Gornoe Delo, No 4, 1963, pp 161-
168.

Dept of Commerce
Natl Bu Standards

Sci-Lat
Jul 68

359,957

Savitskii, E. M. and Baron, V. V.
PROBLEMS IN THE DEVELOPMENT OF SUPER-
CONDUCTING MATERIALS. Mar 64
Order from SIC \$15.00

Trans. of Akademiya Nauk SSSR Izvestiya Metallur-
giya i Gornoe Delo, 1963, no. 5, p. 3-12

(Physics--Solid State, TT, v. 12, no. 2)

TT-64-12825

- I. Savitskii, E. M.
- II. Baron, V. V.
- III. Scientific Information
Consultants Ltd.,
London (England)

Office of Technical Services

Koloyatsev, V. A. and Bezobrazov, S. V.
DESULPHURISATION OF MOLTEN HIGH-CARBON
FERROCHROME, Mar 64
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Trans. of Akademiya Nauk SSSR. Izvestiya. Metallur-
giya i Gornoe Delo, 1963, no. 5, p. 38-41.

TT-64-12826

I. Koloyatsev, V. A.
II. Bezobrazov, S. V.
III. Scientific Information
Consultants Ltd.,
London (England)

(Metallurgy--Ferrous Metals, TT, v. 12, no. 2)

Office of Technical Services

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ALUMINOTHERMAL REDUCTION OF LANTHANUM,
CERUM AND PRASEODYMIUM OXIDES. Mar 64
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giya i Gornoe Delo, 1963, no. 5, p. 50-57.

(Metallurgy--Nonferrous Metals, TT, v. 12, no. 2)

TT-64-12827

I. Podergin, V. A.
II. Samsonov, G. V.
III. Scientific Information
Consultants Ltd.,
London (England)

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Ershov, G. S. and Popova, E. A.
RATE OF SOLUTION OF SILICA, ALUMINA AND
MAGNESIA IN OXIDE SLAGS, Mar 64
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giya i Gornoe Delo, 1963, no. 5, p. 73-79.

(Chemistry--Physical, TT, v. 12, no. 2)

TT-64-12828

I. Ershov, G. S.
II. Popova, E. A.
III. Scientific Information
Consultants Ltd.,
London (England)

Office of Technical Services

TT-64-12829

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INFLUENCE OF TEMPERATURE ON STRESS
RELAXATION IN METALS. Mar 64
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Trans. of Akademiya Nauk SSSR / Izvestiya / Metallur-
giya i Gornoe Delo, 1963, no. 5, p. 98-113.

I. Oding, L. A.
II. Aleshkin, F. L.
III. Scientific Information
Consultants Ltd.,
London (England)

(Metallurgy--Ferrous Metals, TT, v. 12, no. 2)

Office of Technical Services

Kornilov, L. I., Shinaev, A. Ya., and Pylaev, E. N.
CREEP OF SOME INTERMETALLIC COMPOUNDS.
Mar 64
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Trans. of Akademiya Nauk SSSR. Izvestiya. Metallur-
giya i Gornoe Delo, 1963, no. 5, p. 113-115.

(Metallurgy--Nonferrous Metals, TT, v. 12, no. 2)

TT-64-12830

- I. Kornilov, L. I.
- II. Shinaev, A. Ya.
- III. Pylaev, E. N.
- IV. Scientific Information
Consultants Ltd.,
London (England)

Office of Technical Services

TT-64-12811

Nikitin, V. I.
THE DETERMINATION OF TIME-TO-RUPTURE OF
METALS UNDER CONDITIONS OF VARYING STRESS
AND TEMPERATURES. Mar 64
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Trans. of Akademiya Nauk SSSR. Izvestiya. Metal-
lurgiya i Gornoe Delo, 1963, no. 5, p. 116-120.

(Metallurgy, TT, v. 14, no. 2)

I. Nikitin, V. I.
II. Scientific Information
Consultants Ltd.,
London (England)

Office of Technical Services

TT-64-12832

Novikov, I. I., Zolotarevskii, V. S. and Kenin, E. M.
EFFECT OF TEMPERATURE ON THE THICKNESS OF
INTERGRANULAR LIQUID FILMS DURING NON-
EQUILIBRIUM CRYSTALLISATION OF SOLID SOLU-
TIONS. Mar 64
Order from SIC \$8.00

Trans. of Akademiya Nauk SSSR. Izvestiya. Metal-
lurgiya i Gornoe Delo, 1964, no. 5, p. 121-125.

I. Novikov, I. I.
II. Zolotarevskii, V. S.
III. Kenin, E. M.
IV. Scientific Information
Consultants Ltd.,
London (England)

(Metallurgy--Structural. TT, v. 12, no. 4)

Office of Technical Services

Drita, M. E., Sviderskaya, Z. A., Kadaner, E. S.,
and Feigina, S. B.
EFFECT OF THORIUM AND ZINC ON THE RE-
CRYSTALLISATION OF MAGNESIUM. Mar 64
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Trans. of Akademiya Nauk SSSR. Izvestiya. Metal-
lurgiya i Gornoe Delo, 1963, no. 5, p. 129-133.

(Metallurgy--Nonferrous Metals, TT, v. 12, no. 2)

TT-64-12834

- I. Drita, M. E.
- II. Sviderskaya, Z. A.
- III. Kadaner, E. S.
- IV. Feigina, S. B.
- V. Scientific Information
Consultants Ltd.,
London (England)

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CONCENTRATION STABILITY LIMITS OF VANADIUM
CARBIDE AT 1800°C. Mar 64
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Trans. of Akademiya Nauk SSSR. Izvestiya. Metal-
lurgiya i Gornoe Delo, 1963, no. 5, p. 134-140.

(Metallurgy, TT, v. 12, no. 2)

TT-64-12835

- I. Volkova, N. M.
- II. Alyan ovskii, S. I.
- III. Gel'd, P. V.
- IV. Scientific Information
Consultants Ltd.,
London (England)

Office of Technical Services

TT-64-12836

Lainer, D. I. and Bai, A. S.
ON THE MECHANISM OF TITANIUM OXIDATION AT
TEMPERATURES OF 800-1000°C. Mar 64
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Trans. of Akademiya Nauk SSSR. Izvestiya. Metallurgiya
i Gornoe Delo, 1964, no. 5, p. 145-151.

I. Lainer, D. I.
II. Bai, A. S.
III. Scientific Information
Consultants Ltd.,
London (England)

(Metallurgy--Light Metals, TT, v. 12, no. 2)

Office of Technical Services

TT-64-22204

Frantsevich, I. N.
RESULTS OF INVESTIGATIONS ON THE DEVELOP-
MENT OF MATERIALS FOR THE NEWER TECH-
NOLOGIES, CARRIED OUT AT THE METALLO-
CERAMICS AND SPECIAL ALLOYS INSTITUTE OF
THE ACADEMY OF SCIENCES OF THE UKR. SSR.
Order from SIC \$12.00

Trans. of Akademiyu Nauk SSSR, Izvestiya. Metallur-
giya i Gornoe Delo, 1963, no. 6, p. 5-11.

(Metallurgy, TT, v. 12, no. 3)

I. Frantsevich, I. N.
II. Scientific Information
Consultants Ltd.,
London (England)

Office of Technical Services

TT-64-22205

Savitskii, E. M., Burhanov, G. S., and Kopetskii,
Kopetskii, Ch. V.
CAST REFRACTORY METALS AND ALLOYS.
Order from SIC \$8.00

Abridged trans. of Akademiya Nauk SSSR Izvestiya
Metallurgiya i Gornoe Delo, 1963, no. 6, p. 12-33.

I. Savitskii, E. M.
II. Burhanov, G. S.
III. Kopetskii, Ch. V.
IV. Scientific Information
Consultants Ltd.,
London (England)

(Metallurgy, TT, v. 12, no. 3)

Office of Technical Services

TT-64-22206

Ogryzkin, E. M.
BASIC CONDITIONS FOR DEPHOSPHORISATION TO
PRECEDE DECARBURISATION IN THE TREATMENT
OF THE PHOSPHORIC PIG IRONS IN THE OXYGEN
CONVERTER. 10 refs.
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Trans. of Akademiya Nauk SSSR, Izvestiya Metallur-
giya i Chernoe Delo, 1963, no. 6, p. 57-60.

(Metallurgy, TT, v. 12, no. 3)

I. Ogryzkin, E. M.
II. Scientific Information
Consultants Ltd.,
London (England)

Office of Technical Services

TT-64-22207

Kocho, V. S., Dryapik, E. P. and Strel'chenko, A. G.
CONTINUOUS CONTROL OF LIQUID STEEL TEMPER-
ATURE DURING OPEN-HEARTH REFINING. 3refs.
Order from SIC \$12.00

Trans. of Akademiya Nauk SSSR Izvestiya Metallur-
giya i Gornoe Delo, 1963, no. 6, p. 61-67.

I. Kocho, V. S.
II. Dryapik, E. P.
III. Strel'chenko, A. G.
IV. Scientific Information
Consultants Ltd.,
London (England)

(Metallurgy--Ferrous Metals, TT, v. 12, no. 3)

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